



**Science Grade 5
Scoring Guide for
Released Item #15
Ankylosaurus
Fall 2006**



ANSWER THE FOLLOWING CONSTRUCTED-RESPONSE ITEM IN YOUR ANSWER DOCUMENT.

Selected Data on Dinosaurs

Dinosaur Species	Food Source	Approximate Length (meters)	Time of Existence (millions of years ago)
Allosaurus	Meat	36 – 38	154 – 144
Gigantosaurus	Meat	13 – 15	99 – 95
Chasmosaurus	Plants	5 – 8	76 – 70
Tyrannosaurus Rex	Meat	12 – 13	85 – 65
Edmontosaurus	Plants	12 – 13	73 – 65
Oviraptor	Plants/Meat	2 – 3	88 – 70
Deinonychus	Meat	2 – 3	110 – 100

**15 Constructed-Response
(3 points)**

The chart above provides partial data on several different dinosaurs.

- Identify one dinosaur that may have preyed upon Ankylosaurus.
- Explain your choice using two pieces of relevant data from the charts.

NOTHING WRITTEN IN THIS TEST BOOKLET WILL BE SCORED.

Science Rubric for the Ankylosaurus

Selected Data on Dinosaurs

Dinosaur Species	Food Source	Approximate Length (meters)	Time of Existence (millions of years ago)
Allosaurus	Meat	36 – 38	154 – 144
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Chasmosaurus	Plants	5 – 8	76 – 70
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Deinonychus	Meat	2 – 3	110 – 100

The chart above provides partial data on several different dinosaurs.

- Identify one dinosaur that may have preyed upon Ankylosaurus.
- Explain your choice using two pieces of relevant data from the charts.

Sample Response:

Tyrannosaurus Rex most likely preyed on Ankylosaurus. It is a meat-eating dinosaur, lived at the same time as Ankylosaurus and was larger than Ankylosaurus.

Oviraptor could have preyed on Ankylosaurus. It eats both meat and plants and it lived during part of the same time as Ankylosaurus.

*If the student identifies an incorrect dinosaur but provides data which indicate some understanding they will receive partial credit (e.g., Chasmosaurus because it lived at the same time as Ankylosaurus).

Scoring Guide:

- 3 The student correctly identifies a potential predator of the Ankylosaurus and explains using two pieces of relevant data from the chart
- 2 The student correctly identifies a potential predator of the Ankylosaurus and explains using one piece of relevant data from the chart
OR
The student chooses a dinosaur that could not have preyed on the Ankylosaurus but logically explains using two pieces of supporting data (e.g., Edmontosaurus because it is large enough to attack an Ankylosaurus and it lived at the same time).
- 1 The student correctly identifies a potential predator of the Ankylosaurus
OR
The student chooses a dinosaur that could not have preyed on the Ankylosaurus but logically explains using one piece of supporting data (e.g., Deinonychus because it is a meat-eater).
- 0 The student fails to provide any correct information.

Anchor Paper 1 – Score Point 3

3 points One dinosaur I think that may have preyed upon Ankylosaurus is Tyrannosaurus Rex or (Lizard King). The first I picked Tyrannosaurus Rex is that it lived in the same time period as Ankylosaurus about 65-85 million years ago in the Cretaceous Period. The last reason I picked Tyrannosaurus Rex is that it was the biggest meat eater at the time, as long as 12-13 meters long. That is why I picked Tyrannosaurus Rex the only meat eating dinosaur capable of taking down a full-grown Ankylosaurus.

The End

**Anchor Paper 1
Score Point 3**

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (Tyrannosaurus Rex) and explains using at least two pieces of relevant data from the chart (...it lived in the same time period as Ankylosaurus about 65-85 million years ago...) and (...it was the biggest meat eater at the time, as long as 12-13 meters long.), indicating a comparison in size to Ankylosaurus. Large stature is an advantage for a predator.

Anchor Paper 2 – Score Point 3

3 points

An Oviraptor would most likely eat an Ankylosaurus. For one thing Oviraptors eat meat. Another thing is it was also living around the time the Ankylosaurus was.

**Anchor Paper 2
Score Point 3**

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (*Oviraptor*) and explains using two pieces of relevant data from the chart (...*Oviraptors* eat meat.) and (...it was also living around the time *Ankylosaurus* was.).

Anchor Paper 3 – Score Point 3

3 points

I think that the
Tyrannosaurus Rex may have preyed
upon the Ankylosaurus. I say this
because the Tyrannosaurus Rex was
a meat eater and because it was
much bigger than the Ankylosaurus.

**Anchor Paper 3
Score Point 3**

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (*Tyrannosaurus Rex*) and explains using two pieces of relevant data from the chart (*Tyrannosaurus Rex was a meat eater...*) and (*...it was much bigger than the Ankylosaurus.*). Large stature in comparison to Ankylosaurus is an advantage for a predator. Compare to A1.

Anchor Paper 4 – Score Point 2

3 points

One dinosaur that may have preyed upon the ankylosaurus is the Tyrannosaurus rex. It did this because it eats meat.

**Anchor Paper 4
Score Point 2**

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (*Tyrannosaurus rex*) and explains using one piece of relevant data from the chart (...it eats meat.).

Anchor Paper 5 – Score Point 2

3 points

Oviraptor may have preyed upon Ankylosaurus. My first choice is that Ankylosaurus is a plant eater like Oviraptor. My second choice is that the Ankylosaurus and Oviraptor both lived at least 70 million years ago.

**Anchor Paper 5
Score Point 2**

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (Oviraptor) and explains using one piece of relevant data from the chart (...Ankylosaurus and Oviraptor both lived at least 70 million years ago.). The statement ...Ankylosaurus is a plant eater like oviraptor is true but does not support the choice. That Oviraptor was a meat eater is not mentioned.

Anchor Paper 6 – Score Point 2

3 points

Allosaurus might have preyed upon it because it is bigger than Ankylosaurus and because it is a meat eater not a plant eater. Also because it lived up to 140-154 years.

**Anchor Paper 6
Score Point 2**

The student chooses a dinosaur that could not have preyed on Ankylosaurus (*Allosaurus*) but logically explains using two pieces of supporting data (*...it is bigger than Ankylosaurus and because it is a meat eater*). Large stature in comparison to Ankylosaurus is an advantage for a predator. The statement *Also because it lived up to 144-154 years* does not support the choice. Ankylosaurus and Allosaurus did not coexist.

Anchor Paper 7 – Score Point 1

3 points

*A tyrannosaures Rex***Anchor Paper 7
Score Point 1**

The student correctly identifies one dinosaur that may have preyed on Ankylosaurus (*A tyrannosaures Rex*).

Anchor Paper 8 – Score Point 1

3 points

The one dinosaur may have been the Deinonychus, because it eats meat and the length is 2-3 meters. My two are Oviraptor and Chasmosaurus.

**Anchor Paper 8
Score Point 1**

The student chooses a dinosaur that could not have preyed on Ankylosaurus (*Deinonychus*) but logically explains using one piece of supporting data (... it eats meat...). The statement ...the length is 2-3 meters. does not explain why small stature would be an advantage and does not support the choice. The statement My two are Oviraptor, and Chasmosaurus. demonstrates a misunderstanding of the task. Selecting more than one dinosaur is incorrect.

Anchor Paper 9 – Score Point 1

3 points

Gigantosaurus, because it eats
meat + live in close to the same time
as the Ankylosaurus.

**Anchor Paper 9
Score Point 1**

The student chooses a dinosaur that could not have preyed on Ankylosaurus (*Gigantosaurus*) but logically explains using one piece of supporting data (...it eats meat). The statement ...+ live in close to the same time as the Ankylosaurus. is incorrect. Ankylosaurus and Gigantosaurus did not coexist.

Anchor Paper 10 – Score Point 0

3 points

I think that a chasmosaurus would be preyed upon a Ankylosaurus. I think that because a Ankylosaurus has plants in side his back and a chasmosaurus eats plants. Also because a chasmosaurus is smaller than a Ankylosaurus.

**Anchor Paper 10
Score Point 0**

The student chooses a dinosaur that could not have preyed on Ankylosaurus (*chasmosaurus*). The statement ...*a chasmosaurus eats plants*. is true but does not support the choice. Only a meat eater would have preyed on Ankylosaurus. The statement ...*chasmosaurus is smaller than a Ankylosaurus*. does not explain why small stature would be an advantage and does not support the choice.

Anchor Paper 11 – Score Point 0

3 points

I think the dinosaur that
would of preyed upon the
Ankylosaurus because in the chart
it said plants/meat. The Ankylosaurus
was a plant-eater and it had
meat in it.

**Anchor Paper 11
Score Point 0**

The student does not identify a dinosaur that may have preyed on Ankylosaurus. The statement ...it said plants/meat does not refer to a specific dinosaur and demonstrates a misunderstanding of the task.

Anchor Paper 12 – Score Point 0

3 points

A tall dinosaur that nothing
can eat.. small hands, very very ugly eats
anything except plants makes a very
loud noise.

**Anchor Paper 12
Score Point 0**

The student does not identify a dinosaur that may have preyed on Ankylosaurus. Describing a dinosaur (*A tall dinosaur that nothing can eat..small hands, very very ugly eats any thing exept plants makes a very loud noise.*) demonstrates a misunderstanding of the task.